## AMENDMENTS TO THE CLAIMS:

If entered, this listing of claims will replace all prior versions and listings of claims in the application.

### Listing of Claims:

- 1. (Currently Amended) An electrostatic discharge protection device consisting of:
  - a p-well region in a semiconductor substrate;
- a ground pad connected to a first p+ region in said

# 5 p-well region;

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an n+ region in said p-well region wherein said n+ region is connected to a first voltage supply;

an n-well region in said p-well region wherein said n-region is spaced from said n-well region a distance such that a depletion region extends therebetween during normal operation; and

a <u>second</u> p+ region in said n-well region wherein said <u>second</u> p+ region is connected to a second voltage supply of greater value than said first voltage supply during said

- normal operation wherein current is conducted through said n+ region to said <a href="second p+">second p+</a> region during an electrostatic discharge event.
  - 2. (Original) The device according to Claim 1 wherein said p-well region comprises a dopant concentration of between about  $1 \times 10^{15} \text{atoms/cm}^3$  and  $1 \times 10^{16} \text{ atoms/cm}^3$ .
  - 3. (Original) The device according to Claim 1 wherein said n-well region comprises a dopant concentration of between about  $5 \times 10^{15}$  atoms/cm<sup>3</sup> and  $5 \times 10^{16}$  atoms/cm<sup>3</sup> and a junction depth of between about 0.3 microns and 1.0 microns.
  - 4. (Original) The device according to Claim 1 wherein said n+ region comprises a dopant concentration of between about  $1\times10^{20}$  atoms/cm<sup>3</sup> and  $1\times10^{22}$  atoms/cm<sup>3</sup> and a junction depth of between about 0.1 microns and 0.3 microns.
  - 5. (Original) The device according to Claim 1 wherein said distance between said n+ region and said n-well region is between about 0.2 microns and 1.0 microns.

- 6. (Original) The device according to Claim 1 wherein said first voltage supply is between about 1.0 Volts and 5.0 Volts referenced to said p-well region during said normal operation.
- 7. (Original) The device according to Claim 1 wherein said second voltage supply is between about 1.0 Volts and 5.0 Volts referenced to said p-well region during said normal operation.
- 8. (Currently Amended) An electrostatic discharge protection device consisting of:
  - a p-well region in a semiconductor substrate;
  - a ground pad connected to a first p+ region in said

## 5 p-well region;

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an n+ region in said p-well region wherein said n+ region is connected to a first voltage supply;

an n-well region in said p-well region wherein said n-region is spaced from said n-well region a distance such that a depletion region extends therebetween during normal operation and wherein said distance between said n-region and said n-well region is between about 0.2 microns and 1.0 microns; and

a <u>second</u> p+ region in said n-well region wherein said

15 <u>second</u> p+ region is connected to a second voltage supply of greater value than said first voltage supply during said normal operation wherein current is conducted through said n+ region to said <u>second</u> p+ region during an electrostatic discharge event. The device according to Claim 8 wherein said p-well region comprises a dopant concentration of between about 1x10<sup>15</sup> atoms/cm<sup>3</sup> and 1x10<sup>16</sup> atoms/cm<sup>3</sup>.

- 10. (Original) The device according to Claim 8 wherein said n-well region comprises a dopant concentration of between about  $5 \times 10^{15}$  atoms/cm<sup>3</sup> and  $5 \times 10^{16}$  atoms/cm<sup>3</sup> and a junction depth of between about 0.3 microns and 1.0 microns.
- 11. (Original) The device according to Claim 8 wherein said n+ region comprises a dopant concentration of between about  $1\times10^{20} \, \text{atoms/cm}^3$  and  $1\times10^{22} \, \text{atoms/cm}^3$  and a junction depth of between about 0.1 microns and 0.3 microns.
- 12. (Original) The device according to Claim 8 wherein said first voltage supply is between about 1.0 Volts and 5.0 Volts referenced to said p-well region during said normal operation.

- 13. (Original) The device according to Claim 8 wherein said second voltage supply is between about 1.0 Volts and 5.0 Volts referenced to said p-well region during said normal operation.
- 14. (Currently Amended) An electrostatic discharge protection circuit on an integrated circuit device, said protection circuit consisting of:
- a ground pad connected to an external ground

  5 reference and to a first p+ region in a p-well in a substrate;
  - a first voltage supply pad connected to an external first voltage supply and to an n+ region in said p-well; and
- a second voltage supply pad connected to an external second voltage supply of greater value than said external first voltage supply during normal operation and to a <a href="mailto:second">second</a> p+ region in an n-well region in said p-well region wherein said n+ region is spaced from said n-well region a distance such that a depletion region extends therebetween during said normal operation, and wherein current is conducted through said external second voltage supply pad

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to said external first voltage supply pad during an electrostatic discharge event.

- 15. (Original) The device according to Claim 14 wherein said p-well region comprises a dopant concentration of between about  $1 \times 10^{15}$  atoms/cm<sup>3</sup> and  $1 \times 10^{16}$  atoms/cm<sup>3</sup>.
- 16. (Original) The device according to Claim 14 wherein said n-well region comprises a dopant concentration of between about  $5 \times 10^{15} \text{atoms/cm}^3$  and  $5 \times 10^{16} \text{ atoms/cm}^3$  and a junction depth of between about 0.3 microns and 1.0 microns.
- 17. (Original) The device according to Claim 14 wherein said n+ region comprises a dopant concentration of between about  $1 \times 10^{20}$  atoms/cm<sup>3</sup> and  $1 \times 10^{22}$  atoms/cm<sup>3</sup> and a junction depth of between about 0.1 microns and 0.3 microns.
- 18. (Original) The device according to Claim 14 wherein said distance between said n+ region and said n-well region is between about 0.3 microns and 1.0 microns.

- 19. (Original) The device according to Claim 14 wherein said external first voltage supply is between about 1.0 Volts and 5.0 Volts referenced to said p-well region during said normal operation.
- 20. (Original) The device according to Claim 14 wherein said external second voltage supply is between about 1.0 Volts and 5.0 Volts referenced to said p-well region during said normal operation.